				Receiv	ing Repo			
*	Dat Suj	ne: <u>/2</u>	11/2	Enh	Batch Dart F		) 4080 18656	
	Packing Slip: Invoice: Receipt:	Yes Yes Cash	No No Cr	W St Q	elease Note A aybill Attache nipment Comp C6 Inspection ork Order	d:	esNo esNo 1/2/24	
	Discrepancies Part			Quantity	Quantity	Quantity	Quantity	Comments
	Number	Descrip	otion	Ordered	Received	Returned	Short	
						0	\ \	
			1	1,1				
							<u> </u>	
				Initial	s of receiver	(if shipment	OK) Level	12/
	Production/Ac Date Received/Cos Initial	12	112/2/				Locat	ion
	H:\FORMS\Purc	hasing\approve	d purch\REC	CREPORT Re	v D			e.

# Purchase Order Receipt Listing

Friday, December 21, 2012 8:12:32 AM

All amounts are calculated in domestic currency.

All Line Item Types Receipt Dates from 12/21/2012 to 12/21/2012 All Vendors PO ID PO18619 Receipt Dates from 12/21/26 All Item ID/GL/WOs All Rec. Employees All Currencies Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line / Nbr/ e Insp Req	1	Project ID Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Oty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Reject Qty	Book Amt
Vendor IN Vendor Name	/endor Nen		COPOUL	VC-COP001Thyssenkmp Maferials CA Ltd		A SECOND	The state of the s		2000	The state of the s	 Andrew After Street Str
PO18619	3		M7075T6B1.000X1.0 f	.0 f	12/19/2012 12/21/2012	12/21/2012	12.0000	\$12.68	0.0000	0	\$152.12
CAD	Š		00 7075 T6 BAR 1 00 f	4	12.0000	DESJ02		\$152.12	0.0000	0	
į			x1.00			1.1					
			124079					,			
	4		M303B1.000X03.000 f	J 00	12/19/2012	12/19/2012 12/21/2012	25.0000	\$50.21	0.0000	0	\$1,255.34
	N		303 BAR 1" X 3'	f	24.0000	24.0000 DESJ02		\$1,255.34	0.0000	0	
			124079								
	5		M174R0.750	f	12/19/2012	12/19/2012 12/21/2012	36.0000	\$5.18	0.0000	0	\$186.59
	No	27	17-4 round bar .750	4	36.0000	DES102		\$186.59	0.0000	0	
	9		M7075T6B1.500X1.5 f	.5 f	12/19/2012	12/19/2012 12/21/2012	12.0000	\$16.10	0.0000	0	\$193.23
	No		7075 T6 BAR 1.500 f × 1 500	Į.	12.0000	DESJ02		\$193.23	0.0000	0	
			124079								
									Total Received Quantity:	uantity:	85.0000
								Total	Total Qty to Inspect (PO U/M):	O U/M):	0.0000
									Total Reject Quantity:	uantity:	0.0000

0.0000 \$1,787.27

Total Receipt Value: Total Balance Due Quantity:

No: LADING BI Ship Date 20Dec12 at 15:29 From PFW Ship From: Probill THYSSENKRUPP MATERIALS NA VIM TRANSFER Via 2821 LANGSTAFF ROAD CONCORD CONCORD, ONTARIO L4K 5C6 FOB PREPAID Frt Tel: 905 669 9444 Fax: 905-738-9033 Route 0- 0 Manifest Trailer Vhcle STAN IVERS (905-532-1350) Slp (20115)Sold To: Ship To: DART AEROSPACE DART AEROSPACE 1270 ABERDEEN ST 1270 ABERDEEN ST HAWKESBURY, ON K6A 1K7 HAWKESBURY, ON K6A 1K7 Tel: 613-632-9577 Fax: 613-632-1053 BILL OF LADING 1) Our Order PEC-519540- 1 Your PO # 18619 ADD ON Rel # Part # 4-6 DAYS A.R.O ALUMINUM SQUARE BAR 7075-T651 1.00" X 144.0000" \*\* \$225.00 MIN ORDER \*\* Quantity 12 FT Tag No Heat Number 135300 MA20125516 (2) Our Order PEC-519540 | 2 Your PO # 18619 ADD ON STAINLESS STEEL FLAT BAR 303CD 1.00" X 3.00" X 150.0000" Quantity Wt LBS Heat Number Tag No 25 FT 546432 3) Our Order PEC-519540- 3 Your PO # 18619 ADD ON ALUMINUM SQUARE BAR 7075-T651 1.50" X 144.0000" Heat Number Wt LBS PCS Quantity Tag No 135302 MA0120030015 Our Order PEC-519540- 4 Your PO # 18619 ADD ON STAINLESS STEEL ROUND BAR 17-4 STAINLESS .750" DIA X 144.0000" Quantity Taq No Heat Number 36 FT 135359 G19883 LBS PCS Taģs 355 TOTAL: Page: 1 ....Continued TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT. MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

RECUEN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

BILLL LAD ING Ship Date 20Dec12 at 15:29 From PFW Ship From: THYSSENKRUPP MATERIALS NA Probill 2821 LANGSTAFF ROAD VIM TRANSFER Via CONCORD, ONTARIO L4K 5C6 FOB CONCORD Tel: 905 669 9444 Fax: 905-738-9033 PREPAID Frt 0- 0 Manifest Route Vhcle Slp STAN IVERS (905-532-1350) Ship To: 1) Sold To: DART AEROSPACE DART AEROSPACE BILL OF LADING Heat Number \*\*\* Chemical Analysis \*\*\* 253093 G19883 ADD ON TO 518871 SUR-CHARGE PAID SHIP TOGETHER MILL TEST REPORTS, PACKING SLIPS ARE TO SENT WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR TO SHIPPING. ATTN: CHANTAL/LINDA \*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\* \*\* REFERENCED ON IT \*\* TOTAL (1-4) 2 BDLS, 2 TUBES GW. 380 LBS \*\*\*\*\*\* CLOSED FOR THE HOLIDAYS \*\*\*\*\*\* ON DEC. 25TH & 26TH, 31ST & JAN. 1ST. WE ARE OPENED FOR BUSINESS ON DEC. 24, 27 & 28. HAVE A HAPPY HOLIDAY SEASON! \*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA CONCORD, ONT.\* \* \* \* 9:00 AM TO 4:00 PM \*\*\*\* TEL. 800-926-2600 \*\*\*\* \* WE STOCK STAINLESS STEEL PLEASE LET US OUOTE YOUR NEXT REQUIREMENT \*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE ADDED TO EVERY ORDER. \*\*\*

PEC 800500

No:

Trailer

(20115)

Page: .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE RAPPORTÉES IMMÉDIATEMENT. ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

DATE

# Certified Inspection Report

09/22/12 00:25:06

Alcoa Inc.

Massena Operations

Park Avenue East, Massena, NY 13662



AMS 4123H (Except Marking)
OQA-225/9E
AMS-OQA-225/9
ASTM B211-12
Material conforms to T6 requirements Specifications: Ship To Copper Brass Sales When 2 or more tests per lot are made, the highest and lowest values are reported Analysis obtained from one or more samples in this lot. Date Shipped Copper Brass Sales Actual Started Chemistry Aluminum Association Chemical Composition Limits (in Weight %) Lot / Work Order Test Results TEST REQUIREMENTS Alloy - Temper NOTES LOT/WORK ORDER 7075 ALLOY TEST ABBREVIATIONS MA20125516 Customer MA20125516 Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium. Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9. Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9. Santa Fe Springs, CA 906 13338 Orden Dr. Building Ultimate Tensile Strength KSI 09/21/12 7075-T651 No. of Tests MAX MA X X 0.40 ₹ % 0.06 0.06 <u>%</u> Max: Max: Weight Shipped 0.50 %FE %FE 0.14 0.14 U.T.S. U.T.S. Test Test Size 5400153340 Customer P.O. No 82.6 77.0 83.7 1.2 2.0 %CU % C U 1.6 1.7 1,462 lbs 1.00000 IN T.Y.S. T.Y.S. Test Test 66.0 76.2 77.3 0.30 %MN %MN T.Y.S. 0.02 %Elong %Elong Test Test 29 %MG Tensile Yield Strength KSI %MG 07.0 15.0 15.5 2.5 2.4 Customer Part No (ALSQ00118) part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet been found to meet the applicable requirements described herein, including any specifications forming a Melted and manufactured in the USA. Manufactured under an ISO/TS 16949 registered quality management system We hereby certify that the material covered in this report has been inspected in accordance with, and has Test Test 0.18 0.28 %CR %CR 0.20 Product CFRB-CF SQ. Shape 5.1 %ZN %ZN 5.9 5.7 Test Test 0.20 %TI %TI 0.03 Config Test Test MMC-A4121- -010 Alcoa Order No. Specific Length 0.05 Each LT %OE %Others 0.05 These cortifications are for: Delivery #: 1402201845 Test es Moraceli Robbes %Elong 0.75 %Others LT Total %OT 0.15 Test est Elongation % in 2" -%AL Zhou Wang, Rem Rem %AL Govt. Contract No. Test Test Quality Assurance Manager QRR R BOL 000160586 Test Test Page, 1

Quality check

### Acciaierie Valbruna s.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.i. Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Bessiler/Purchase/Client VALBRUNA STAINLESS INC. 2400 TAYLOR STREET WEST 46801-FORT WAYNE, IN 46801-US

Produttore: ACCIAIERIE VALBRUNA S.P.A.

State di femitura: - Annealed Cold Drawn

Specifiche: VSI 0 303 A,CF AMS 5640 U TYPE1 A ASTM A320 2011A B8F (1) MIL-S-862 B/1 303

(0) SEC.II PT.A 2010 EDITION ADD. 2011a (1) Chemical analysis only.

**AISI 303** 

ASME SA320 2010 B8F (0) ASTM A370 2011A .

QQ-S-764 B/2 303 A



#### **CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS** INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

54-161410

Avviso di Spedizione: D-VI12021835

Ordine nr. 33607 STOCK CAROL STR

(0) Chemical analysis only.

Tipo di Elaborazione: E+AOD

Certificato nr: MEST225671/2012/

Conferma ordine nr: El12005792

Marchio di Fabbrica:

Punzone del Collaudatore

AMS 5840 U S30300 A ASTM A314 2008 S30300 ASTM A582 2012 S30300 A



Qualitá: 303

Marca: Merkenbezeichnung Brand/Nussia	AU188Z/P	Tolleranza: ASTM A484-10 Toleranz/Allowance/Tolerance			natura: 303 niúng/Marking/l		
Pos. rir. Pos. rir. item.nr. Nr. de poste	Oggetto Gegenstand Product description Descrip: du produit	Dimensioni - In Abmessingen Dimension Dimension	Lunghezza - in Lange Length Longueur	Colata Solventze Heat Coulde	Pezzi Stockzani Pleces Pleces	Peso - LB Gewicht Weight Polds	Lotto nr. Loans Lot ns. Lot ns.
0080	Flat	3,0000 x 1,0000	137 / 150	253093		2.017	124300080

		Test	on deliv	ery condition Pro	TES etung auf feterber	ST ALLO STA eltem produkt - t	TO DI FOR	INITURA umiture Pro	ieps sopre e	l material asi c	ome entregado	
TEST	Provetta/Probestab Spacinier/Eprouvetta Lury.clam Spans. Braile Diant: Dicke Width Diant. Thickness Lary. diant. epale	۰F	Posiz. Saggio Lunion	Snervamento Streetgente Viel Street Limite elestique Rp 0,2% k.s.i.	Snervamento Strolgranza Videl Strong Unitio stantique	Registenza Zigferighek Terrile strengti Resistance & vector Rm K:S.1.	Allungar Brushdeh Elongar Allorgen	ion I	Eléable Reduction	zione noting in of area. ction RA %	FIGSIII OF ZE Ketanhigastali Impact Value Realisace	Durezza Harto Harto Unete HB
Anfondens	ri richiasti 1 rigenflequired values ure démandées	m		•		•	•	-	•	•	•	140 255
A	12,5	68	L	69		100		40		53		237

TEST				min	max		
Α	Grain size for ASTM E112		1 :			5	

Mechanical properties according to ASTM A370.

is viineleitinns. Terrasversale/mies: OeTercenzieleitans

#### **Analisi** chimica

Chemische Zusammensetzung	g/Chemical	Analys	da/A	alyse	chimique	

	min max 0,150	1,00	1,50 2,00	17,00 19,00	0,60	1,00	8,00 10,00	•	0,100	0,25 0,35	0,400	-		,	-
	C %	Si%	Mn %	Cr%	Mo %	Cu %	NI %	Co %	P%	S%	Zr %				
253093	0,037	0,32	1,74	17,16	0,47	0,47	8,21	0,125	0,030	0,33	0,006		1	1	

Produced without class I-II Ozone depleting substances.

Solution heat treated free from continuous carbide network.

Annealing temperature: 1940°F for 1 h/water.

Micro and macro etch test: OK

Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste Dis gestaten Antordenungen sind it. Anlage ertilit. The material has been furnished in accordance with the requirements Le material à de fouvé conforme sux exigences.

Controllo antimescolanza: OK

12/12/24

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant. The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1,s.,4.3 by TUEV and LLOYD'S

Vicenza,13/07/12	li collaudatore di stabilimenti	o / der Werkssachverständige/Works inspector M.Rizzottfd FLUVS	/L'agent d'usine Pagina - 1 di 2

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402214405

254.000 LB Wqt:

Part:

PO:

PEC# 244448

12/17/2012 Date

John R. Zambeth

### Acciaierie Valbruna s.p.A.



CERTIFICATO DI COLLAUDO **ABNAHMEPRUEFZEUGNIS** INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

36100 VICENZA (Italia) - Viale della scienza, 25 z.i. Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besseller/Purchaser/Client VALBRUNA STAINLESS INC. 2400 TAYLOR STREET WEST 46801-FORT WAYNE, IN 46801-US

Produttore: ACCIAIERIE VALBRUNA S.P.A.

Stato di fornitura: - Annealed Cold Drawn

Avviso di Spedizione: D-VI12021835

Ordine nr: 33607 STOCK CAROL STR

Tipo di Elaborazione: E+AOD

Certificato nr: MEST225671/2012/

Conferma ordine nr: El12005792

Marchio di Fabbrica: en des Liefernwerkes missk de it tusine torodutrios

Punzone del Collaudatore: Stempel des Wertesschverständigen Inspector's stampPoincon de l' sess



Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Accalerie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

or applicable civil and criminal laws. Accident Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements expressly requested by the purchaser and conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Accidented Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 13/07/12

(Mod. MCE2)

Wgt:

Il collaudatore di stabilimento / der Werkssachverständige/ Works inspector / L' agent d' usine

PEC# 244448

M. Rizzoty Full

Pagina - 2 di 2

From: ThyssenKrupp Materials NA

2402214405 Cust. THYSSENKRUPP MATERIALS NA - ECAD Del:

Part:

254.000 LB

PO:

Date 12/17/2012

John Bunbeth

# Certified Inspection Report

Ship To Copper Brass Sales

Santa Fe Springs, CA 906

13338 Orden Dr. Building

Copper Brass Sales

Customer

06/30/12 00:25:14

## Alcoa Inc.

## Park Avenue East, Massena, NY 13662 Massena Operations



Govt. Contract No.

5400146469 Customer P.O. No. Customer Part No 'ALSQ00010) part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a MMC-A3532- -010 Alcoa Order No.

Manufactured under an ISO/TS 16949 registered quality management system Quality Assurance Manager

1.50000 IN 724 lbs Shape Product CFRB-CF SQ. Config Specific Length 12 FT QRR BOL 000160411

Melted and manufactured in the USA.

Specifications:

Alloy - Temper Date Shipped

06/29/12 7075-T651

Weight Shipped

Size

AMS 4123H (Except Marking) QQA-225/9E AMS-QQA-225/9E ASTM B211-12

Material conforms to T6 requirements

Product produced and marked to the requirements of AMS-QQ-A-225/9 also meets the requirements of QQ-A-225/9. Product produced and marked to the requirements of QQ-A-225/9 also meets the requirements of AMS-QQ-A-225/9.

		j										
		Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	
HO REQUIREMENTO		u.T.S.	T.Y.S.	%Elong								
	Max:											
	Min:	77.0	66.0	07.0								
Test Results		Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	
no. of Nork Order Tests		U.T.S.	T.Y.S.	%Elong								
MA012003015 1	Max:	81.9	74.5	15.5								
	Min:	81.9	74.5	15.5								
TEST ARREVIATIONS												

TEST ABBREVIA I IUNS
U.T.S. Ultimate Tensile Strength KSI Association Chemical Composition Limits (in Weight %)

Vell		1 5	9.00	0.20	0.7	0.26	2.9	0.30	2.0	0.50	MAX 0.40
7		ا د	200	3	2	200	2	701811	ì	à r	7801
8	Others	thers %	%Ot	% <u>T</u>	%ZN	SCR CR	820	8 Z Z	<u></u>	0/EE	0/0

Tensile Yield Strength KSI

Elongation % in 2"

		İ	8
MA0120		LOT/WORK ORDER	Actual Started Chemistry
03015		RK ORD	arted Chi
		R	emistry
M	MAX		
0.05	0.05	DER %SI	
0.14	0.14	%FE	1
_	_	%	
1.7	1.7	%CU	
0.01	0.01	%MN	
		_	-
2.5	2.5	%MG	
5	Ċì	ดิ	100
		Ļ	ī
0.19	0.19	%CR	
X.	_		-
5,8	5.8	%ZN	1 1004
8	œ	NZ	
0.02	0.02	%TI	
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	LT 0.15	%OT	
	Rem	%£	
	3	۴	1
L			1
12			
-			1
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1
		4	1

NOTES:

Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.

This alloy meets the requirements of EU 2002/95/EC (RoHS) and EU 2000/53/EC for lead, mercury, cadmium and hexavalent chromium.

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD

Wgt: 33.000 LB

Part:

Date 12/12/2012 PEC# 244448

Del:

2402207844

0AS 14 12/12/24



### YSSENKRUPP MATERIALS NA

#### **Certificate of Mill Test Results**

/2

PO/Rel 18619 ADD ON

DART AEROSPACE STAINLESS STEEL ROUND BAR 17-4 STAINLESS .750" DIA X 144.0000"
PART NO.

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

DC 1 EC-000500 004	2020
Signed by:	Pg 1/

<u></u>	DESTRUCTION ON THEORY	ADN	AHMEPRUEFZE	TICNIS CP	RTIFICAT DE	CONTROLE		
	RTIFICATE OF TESTS							
A	TALLEY METAL	c ·	THE RECORDING OF FALSE, NAY BE PUNISHED AS A FI CHAPTER 47.	FICTICIONS OR FRAUDRENT ST CONY INDER PEDERAL STATUS	ES THEODOTHS FEDERAL	LAU, TITLE 18.		
(4		7	THE VALUES AND OTHER TE	CHNICAL DATA REPRESENT THE RUM T'E TOTAL LOT, ORIGIN ER GROER RUMBER.	RESULTS OF AMALYSES NAL DATA RECORDS CAN	AND TESTS MADE		
1 3	A Carpenter Company		MAJERIAL IS MANUERCHBRED	TREE FROM MERCURY, KAUSUM.	WILLIA WAR PAREN SCOKE	_ LUB .Rhink Liux.		
	Talley Metals Technology, Inc. 205 Tuliey Metals Lane			BE REPRODUCED, EXCEPT IN CORPORATION				
Ì	McBee, SC, 29101 Tel: (610) 208-2000 (8	00) 338-459	2					
	12/03/12 CUSTOMER/BESTELLER/CLIENT			SELLER / VERKÄU	FER/VENDEURPAG	E 1 OF 2		
	COPPER & BRASS SALES		:	TALLEY METALS TECH, INC.				
	22355 W BLEVEN MILE SOUTHFIELD , MI 4	8034		ACCOUNTS PAYABLE P. O. BOX 2498 HARTSVILLE ,SC 29551				
1								
\ <u></u>	CHISTOMER ORDER NO./BESTELL-NR./N= DE COMMANDE		CARPENTER NO. /WERKS-NR	./Nº DE REFERENCE INFERNE	DATE/OATUH/DAYÉ	WEIGHT/GENICHT/PRIUS		
5	400158467-0050		TLY170701 L	16636	12/03/12	3250.000		
	HEAT NUMBER / SCHMELZE-NR / Nº DE COL	LEE:	G19883	UNS NUME	BER 517400			
P	RODUCT DESCRIPTION: TYPE	17-4 S	OLUTION ANNE	ALED COLD FINI	SH	•		
s	PECIFICATION: TALLEY 174-	ria ca	AP OF H900 (0	1/11/99)				
-	AMS 2303 RE	F (C	AP OF H900 (0 08//10) 01//08) 02//08)	100				
	AMS 5643 RE ASTM-A484-1	ŸŘ{č	27 708)					
	ASTM-A564-1	0	EDITION (TYPE	630)				
	ASTM-F899-1	2		·				
1 -	IZE 0.750000 IN. ( 19.05	1	4 1					
P	RIMARY HEAT CHEMISTRY (WT%	): (TI	ST METHOD IS	SHOWN IN PARI	enthesis)			
	C (COM) MN (XRF 0.028 0.76		SI(XRF)	P (XRF) 0.021	S (COM) 0.025	CR (XRF)		
	NI(XRF) MO(XRF 4.24 0.33	)	CU(XRF)	N (FUS) 0.034	CB(XRF)	TA(XRF)		
	CB+TA 0.26							
Ţ	THIS HEAT MELTED BY THE ELL THIS MATERIAL WAS MANUFACT	ECTRI	C ARC/AOD PRO	CESSES	<b>ም</b> ወ <b>ፎሮክ</b> ሶፕአየም	פער.ז.זע ע		
ا دُ	PERATIONS QUALITY PROGRAM MILL HEAT TREATMENT:	MANU	AL REVISION 3	0, DATED 09/2	8/11.	1 MINUTE		
	TYPE SOL A	NL						
		0 HOU	RS					
E	DISCS MACROETCHED AND APPR							
F	iardness as shipped 311Hbw	( 331	HRC )	DAS 1	12/2/24	,		
	MICROSTRUCTURE - FERRITE MAGNETIC PARTICLE: FREQ	UENCY	= 0 / 96%	9-89 (TY = 0	MINNY	•		
	CAPABILITY							
	900 F( 482 C), 01	HR	AIR COOL					
	HARDNESS 442HBW	ž .						
386								
FO9# E2-386			CON	CINUED ON NEXT	PAGE			
<u>E</u>	This centification is made to the customer printed on this form.  Die vortiegende Zestificierung ist nur für den in diesem Formiti Cu centificat est unieument valable point is cliefe dom is opra	Carpenter neith or penantien Ki	of makes, not minumes trapposibility indea guidig. Curpenter Woralmun g	soj, say mpresarismon de perificación i ngentifica Drilles keineris: Hallung Chré	o alber parties. Se outgrivissenen Daten oder Ze	nifizienugen.		
<u> </u>	com: ThyssenKrupp Materials		a lammulates. Compositel a estratos p	a de impunishalile pois ané selification	n vis-4-Vis d'uns-tiencé personne	·		

Del: 2402207840

PEC# 244448

Date 12/12/2012

Doc No. 149116 Indexed 17Dec12 by slssup1

Wgt: 53.000 LB

Part:

Cust. THYSSENKRUPP MATERIALS NA - ECAD

#### HYSSENKRUPP MATERIALS NA

STAINLESS STEEL ROUND BAR 17-4 STAINLESS .750" DIA X 144.0000"
PART NO:

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

**Certificate of Mill Test Results** 

BL PEC-800500-004

Pg 2/2 Signed by:\_

CERTIFICATE OF TESTS CERT SERIAL# 000848487

#### **ABNAHMEPRUEFZEUGNIS**

CERTIFICAT DE CONTROLE



TALLEY METALS A Carpenter Company

CHAPTER 42.

BIC SALUES AND OTHER TECHNICAL DATA REPRESENT THE RESULTS OF AMAEYSES AND TESTS MARE
REFERENCE TO THE CAMPLETER ORDER NUMBER.

WATERIAL IS MANUFACTURED FREE FROM HERCURY. RACHAM, ALPHA AND GAMMA SOURCE CONTAMINATION.

HIS CONDENT SHALL BOT BE REPROCINCED. EXCEPT IN FULL. ATTHOUT THE MRITTEN CORSENT. Talley Metals Technology, Inc. 205 Talley Metals Lane MeHee, SC. 29101 Tel: (610) 208-2000 (800) 338-4592

12/03/12 CUSTOMER/BESTELLER/CLIENT

COPPER & BRASS SALES 22355 W ELEVEN MILE SOUTHFIELD ,MI 4 MI 48034 SELLER/VERKÄUFER/VENDEURPAGE 2 OF 2

TALLEY METALS TECH, INC.

THE OLDOWING DE LAUSE PICTACEOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS COLUMENT DAPPER 12 13 HD AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAY. TITLE 18.

ACCOUNTS PAYABLE P. O. BOX 2498 HARTSVILLE ,SC 29551

COSTUMER ORDER NO. /BESTELL-NR. / DE COMMANDE CARPENTER NO. ANURKS-NR. IN- DE REFERENCE ENTERNE DATE/DATUR/DATE ME (GHT/GEWICHT/POIDS 5400158467-0050 TLY170701 L16636 12/03/12 3250.000

HEAT NUMBER / SCHMELZE-NR. / Nº DE COULFE : CAPABILITY

900 F(

G19883

UNS NUMBER S17400

AIR COOL

(T) RANSVERSE (L) ONGITUDINAL YIELD STRENGTH, (0.20 %) KSI (MPA) TENSILE STRENGTH, KSI (MPA) ELONGATION IN 1.40", % REDUCTION OF AREA, / %

482 C), 01 HR

204.0 ( 1407) 206.0 ( 1420) 11.0 53.0

NO WELD REPAIR PERFORMED

MATERIAL HAS BEEN MELTED AND MANUFACTURED IN THE USA WHICH IS A QUALIFYING COUNTRY TO DFARS REQUIREMENTS 252.225-7014 WITH ALTERNATE 1 FOR QUALIFYING COUNTRY 225.872.1, SUPERSEDED BY DFARS REQUIREMENTS DFARS 252.225-7008 AND 252.225-7009.
WE HEREBY CERTIFY THAT THE ABOVE TEST DATA ARE IN ACCORDANCE WITH THE PURCHASE ORDER AND SPECIFICATION REQUIREMENTS. CERTIFICATE OF TEST IS PREPARED IN ACCORDANCE WITH PARAGRAPH 3.1 OF EN 10204 (DIN50049)

STEPHANIE E. MCCULLUM QUALITY ASSURANCE ENGINEER CARPENTER TECHNOLOGY CORPORATION

SSRD01402

14 12/24

Supraire McCullium

This confidence is made to the confinent printed on this form, Carporter active makes, nor extensive responsibility for, any representation or confidence for the printer. Dur verification to other parties. Dur verification for the farmer for the number of the printer described printer of the printer of th

From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402207840

PO: PEC# 244448

Wqt: 53.000 LB Date 12/12/2012



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

#### PURCHASE ORDER

#### Purchase Order ID PO18619

Purchase Order Date 12/11/12 PO Print Date 12/11/12

Page Number 1 of 4

VC-COP001 Order From: THYSSENIRUPP MATERIALS CA LTD O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A" TORONTO ON M5W 5V8 CA Chantal Lavoie Buyer **Contact Name** Requisition Nbr 905 669 9444 Vendor Phone 10127-2607 Tax Resale Nbr 905 738 9033 **Vendor Fax** Net 30 Terms

Currency

Destination-Collect FOB

CAD

DART AEROSPACE LTD Ship To:

Vendor Account Nbr

1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CANADA



\$795.00

\$2,4844

M124029 124078 Extended Req Qty/ Ship Method Unit Price Reg Date/ Description/ Price Line Nbr Reference Taxable Unit of Measure Mfg ID Revision ID Vendor Part Number \$1,050.00 \$3.2812 320.00 Yours ppd 12/19/12 304/316 .050 Sheet M304S18G Yes sf 020 MATERIAL: AISI 304/316 SS SHEET Special Inst: ANNEALED 2B FINISH AS MIL-S-\$059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240

PLEASE NOTE: DO NOT DELIVER BEFORE THE 17 OF DECEMBER

RECEIVING WILL BE CLOSE DECEMBER 13 AND 14 FOR

INVENTORY

320.00 12/19/12 304/316 .040 Sheet M304S20GA sf Yes 070

Yours ppd

MATERIAL: AISI 304/316 SS SHEET Special Inst: ANNEALED 2B FINISH

AS MIL-S-5059 OR AMS 5513 (304) OR

AMS 5524 (316)

OR ASTM A240 OR ASME SA240

No substitution or deviation without NO: PEC ST-518482 NO: PEC ST-514021 PO Instructions NO; PEC ST-515417 NO: PEC ST-513880 consent. Certificate of Conformity or Material Certification required - YES NO 12/11/12 Change Date: Change Nbr:



Change Nbr:

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

#### PURCHASE ORDER

#### Purchase Order ID PO18619

Purchase Order Date 12/11/12 PO Print Date 12/11/12

Page Number 2 of 4

							Page Number 2 of 4	
TI O	er From : HYSSENKRUPP N /A VPK METAL- ( ORONTO, ON MS	C/O T27540/PO B	LTD	VC-COP001 TAL"A"				
Ve Ve	ntact Name ndor Phone ndor Fax ndor Account Nbr	905 669 9444 905 738 9033		Tax Ter	quisition Nbr Resale Nbr ms rency	Chantal Lavoi 10127-2607 Net 30 CAD Destination-C		
3	M7075T6B1 000X1	.000 7075 1	6 BAR 1.00 x1.00	Yes :: MATERIAL: 70 T651/T6510/T6	511/T62 BAR QQ-A-225/9 OR AM 5/4187 OR	Yours ppd	\$12.5959	\$151.15
4	M303B1.000X03.0	00 303 B.	AR 1" X 3' Special Ins	12/19/12 No t: MATERIAL: A ASTM A582			\$49.8942	\$1,197.46
5	M174R0.750	17-4 r	ound bar .750 Special Ins	t: MATERIAL: 1		Yours ppd PE 630 SS	\$5.1500	\$185.40
6	M7075Т6В1.500X	1.500 7075 1.500	T6 BAR 1.500 x Special In	12/19/12 Yes MATERIAL: 7 T651/T6510/T	12.00 f 7075-T6 OR 6511/T62 BAR -QQ-A-225/9 OR AI 86/4187 OR	Yours ppd	\$16.0000	\$192.00
PC	O Instructions: NO: P	EC ST-518482 NO: 1 EC ST-515417 NO: 1	PEC ST-514021 PEC ST-513880			cons Cert	ubstitution or deviation ent. ificate of Conformity or ification required - YES	Material

Change Date: 12/1 1/12



Change Nbr:

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

Fax: 613 632 1053

#### PURCHASE ORDER

#### Purchase Order ID PO18619

Purchase Order Date 12/11/12 **PO Print Date** 12/11/12

							Page Number 3 of 4				
O/A	SSENK VPK M	₽†AI	P MATERIAL C/O T27540 M5W 5V8			VC-COP001 ΓAL"A"					
Vendo Vendo	ct Name r Phone r Fax r Accoun	Nbr	905 669 9444 905 738 9033				Tax Ter Cui	uisition Nbr Resale Nbr ms rency	Chantal Lavoie 10127-2607 Net 30 CAD		
		-					FO	В	Destination-Co	llect /1501	
7 r	M6061T6	B0 375	5X00.750	60617	6 BAR .375 x .750  Special inst:	MATERI T6/T651/ BAR AS 225/8 OR	Yes AL: 60 T6510 PER C	24.00 f /76511/T62 ALUM Q-A-225/8 OR AM 4117/4128/4115/4 R ASTM B221	IINUM 1S-QQ-A-	\$2.5000	\$60.00 ~
8 1	M6061T6	RO 500		6061-	T6 Round Bar .500" Special Inst:	6061-T6 T62) ROI QQ-A-22 (AMS 41 OR QQ-A	Yes (OR 66 UND E 5/8 OF 17/412 A-200/6	48.00 f 061-T651/ T6510/7 3AR R AMS-QQ-A-225/ 28/4115/4116) 8OR AMS-QQ-A-2 I OR ASTM B221	8 OR	\$1.2000	\$57.60
9 1	M6061T6	R0.563	3	6061563	T6 ROUND BAR  Special Inst:	6061-T6 T62) RO QQ-A-22 (AMS 41 OR QQ-4 AMS 416	Yes (OR 66 UND E 15/8 OI 17/412 A-200/ 50)	300.00 f 061-T651/ T6510/ 3AR R AMS-QQ-A-225/ 28/4115/4116) 8OR AMS-QQ-A-2 I OR ASTM B221	16511/ 8 OR	\$0.6067	\$182.01
PO Ins	tructions		: PEC ST-518482 ; PEC ST-515417						conser Certifi	ostitution or deviation wint. Icate of Conformity or Mication required - YES	

Change Date: 12/11/12

